WHAT IS CLAIMED IS:

1. A method for resolving anomalies within a network topology map, the method comprising:

identifying a conflicting link within a received topology map, the conflicting link comprising a source and one or more conflicting destinations;

resolving the conflicting link through the use of one or more virtual devices within the topology map; and

replacing the conflicting link with a link to a virtual device based upon the resolution of the conflicting link.

2. The method of claim 1, wherein resolving the conflicting link comprises:

determining a number of conflicting destinations from the source of the conflicting link;

resolving the source of the conflicting link;

resolving the conflicting destination.

3. The method of claim 1, comprising:

identifying a link between two virtual devices; and

merging the virtual devices.

4. The method of claim 1, wherein identifying the conflicting link comprises locating two or more entries in a link table showing the source to be linked to two or more different destinations.

5. The method of claim 4, comprising grouping together entries in the link table having the same source into a conflict group.

6. The method of claim 4, wherein replacing the conflicting link with a link to the virtual device comprises removing the conflicting link from the link table and inserting the link to the virtual device in a virtual link table.

7. The method of claim 6, comprising generating a virtual link table for storing one or more links to virtual devices.

8. The method of claim 1, wherein resolving the conflicting link comprises first determining whether the source or a destination in the conflicting link is linked to a first virtual device and replacing the conflicting link with a link to a virtual device only if neither the source nor a destination is linked to the first virtual device.

9. The method of claim 8, wherein determining whether the source or destination is linked to a virtual device comprising first determining whether the source is linked to a virtual device then determining whether a destination in the conflicting link is linked to a virtual device.

10. The method of claim 8, comprising, if the source is linked to a first virtual device, replacing the source with the first virtual device.

11. The method of claim 8, comprising, if a destination in the conflicting link is linked to a first virtual device, creating a link from the source to the first virtual device if the source in the conflicting link is not a virtual device.

12. A computer readable medium storing a data structure representing a virtual link table, the data structure comprising:

one or more entries showing a link between a source device in a network and a first virtual device, the source device being identified in a received topology map of a network and the first virtual device not being identified in the received topology map;

one or more entries showing a link between a destination device in the network

and the first virtual device, the destination device being identified in the received topology map;

the virtual link table data structure being used by an executable program to

display an improved topology map of the network.

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